

INTERNATIONAL SEARCH REPORT

 International Application No
 PCT/IB2004/003082

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K31/40 A61K31/426 A61K45/06 A61P3/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, BIOSIS, EMBASE, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 548 481 B1 (DEMUTH HANS-ULRICH ET AL) 15 April 2003 (2003-04-15) claims 1,5,13,14 column 1, line 66 - column 2, line 7 column 7, paragraph 2	1-12,15, 16,20-26
Y	US 2003/119736 A1 (DEMUTH HANS-ULRICH ET AL) 26 June 2003 (2003-06-26) page 5, column 2, paragraph 5 - page 6, column 1, paragraph 1 claims	1-26
Y	US 2003/162820 A1 (DEMUTH HANS-ULRICH ET AL) 28 August 2003 (2003-08-28) claims	1-26
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

6 June 2005

Date of mailing of the international search report

15/06/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>GOODMAN G A ET AL: "GOODMAN and GILMAN'S The Pharmacological Basis of Therapeutics , (sulfonylureas, biguanides, thiazolidinediones, alpha-glucosidase inhibitors)"</p> <p>2001, PHARMACOLOGICAL BASIS OF THERAPEUTICS, GOODMAN GILMAN'S PHARMACOLOGICAL BASIS OF THERAPEUTICS, NEW YORK, MACMILLAN PUBL. CIE, US, PAGE(S) 1701-1707 , XP002330634</p> <p>page 1701, column 2, paragraph 4 - page 17047, column 2, paragraph 3</p> <p>page 1705, column 1, paragraph 3 - page 1706, column 1, paragraph 1</p> <p>page 1706, column 1, paragraph 2 - page 1706, column 2, paragraph 5</p> <p>page 1706, column 2, paragraph 6 - page 1707, column 1, paragraph 2</p> <p>-----</p>	1-26
A	<p>US 2003/139434 A1 (BALKAN BORK ET AL)</p> <p>24 July 2003 (2003-07-24)</p> <p>the whole document</p> <p>-----</p>	1-26
X,P	<p>DE 299 24 609 U1 (PROBIODRUG AG)</p> <p>22 April 2004 (2004-04-22)</p> <p>claims</p> <p>-----</p>	1-26
X,P	<p>WO 2004/031374 A (PROBIODRUG AG; KUEHN-WACHE, KERSTIN; BAER, JOACHIM; DEMUTH, HANS-ULRIC)</p> <p>15 April 2004 (2004-04-15)</p> <p>page 53</p> <p>page 75, paragraph 3 - paragraph 4</p> <p>-----</p>	1-26

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 1, 2, 5, 6 and 8-14 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-12, 23-25 (all partially), 13, 14

A method or pharmaceutical composition for glycaemic control in a mammal, comprising the administration of glutaminy l thiazolidine or glutaminy l pyrrolidine, or a pharmaceutically acceptable salt thereof, and an alpha glucosidase inhibitor.

2. claims: 1-12, 23-25, (all partially), 15, 16, 20-22, 26

A method or pharmaceutical composition for glycaemic control in a mammal, comprising the administration of glutaminy l thiazolidine or glutaminy l pyrrolidine, or a pharmaceutically acceptable salt thereof, and a biguanide.

3. claims: 1-12, 23-25, (all partially), 17

A method or pharmaceutical composition for glycaemic control in a mammal, comprising the administration of glutaminy l thiazolidine or glutaminy l pyrrolidine, or a pharmaceutically acceptable salt thereof, and an insulin secretagogue.

4. claims: 1-12, 23-25, (all partially), 18, 19

A method or pharmaceutical composition for glycaemic control in a mammal, comprising the administration of glutaminy l thiazolidine or glutaminy l pyrrolidine, or a pharmaceutically acceptable salt thereof, and an insulin sensitizer.

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